

Skills

• **Languages** – C/C++, Java (with Android), JavaScript (with jQuery, Angular.js, Node.js, Express, etc), PHP, Perl, Python (with Django), Bash, Batch file, R, Assembly (ARM & x86).

Non-programming- HTML5 (also jade, Polymer), CSS

• **Databases** - MongoDB (some NoSQL experience), SQL (lot of experience with relational db modelling).

• **OS** – Linux, Gnome, GRUB, GTK+, shell-scripting, Xinu, load-balancing.

• **Miscellaneous** – Regex, version-control, 2nd arithmetic, cloud-deployment, security.

Awards

• Qualcomm QualStar Hall of Fame award (2014) for exceptional contribution.

• International Informatics Olympiad (2007) - 28th rank (international) [1st in state]

• Unified Cyber Olympiad (2007) - 55th national rank

Community

• Started an organization- **Free Knowledge Project**, a growing community of people who believe in the freedom of knowledge. Currently has 3 classes- web-dev (taught by me), iOS-dev and Android dev free of charge.

• **University Place Tech Support**- helping the elderly with technology issues at a retirement home.

• Held leadership position at ΦΣΠ, an honor fraternity for charity work and community service.

Education - Purdue University, West Lafayette

Major: Computer Science | Minor: Sociology | GPA: 3.03 | Graduation: Dec 2015

Work Experience

- **Tegra Software Intern, Nvidia** (2015)
Administered a continuous integration server and implemented load-balancing, version control and install-automation. Also, created a tool to pull and view device test metrics.
- **Software Engineering Intern, Qualcomm** (2014)
Developed tools for tracking, scheduling and testing software builds with live notifications & intelligent look-ups. Awarded QualStar Hall of Fame for exceptional contribution.
- **Applications Engineer, Office of Indiana State Chemist** (2012 - 2014)
Developed enterprise-level production-quality web-applications and offline technologies for use on the field, in the lab and at the office by officials of state agricultural administration. Helped build a cache-and-sync system for field-use.
- **Web Programmer, Oil India Limited** (2012)
As a freelance programmer, developed an internal web-portal for Security Department facilitating intra-departmental logistics and communication.

Projects

- **Rovr** - A robot whose directional locomotion can be controlled by hand-gestures using a Myo Armband, by a Pebble Smartwatch, by an Android app, by a web-app, and also by texting. Uses Lego Mindstorms NXT kit, Node.js, ngrok, Twilio texting API, Pebble.js API.
- **CollabTube** - Web-app to make and view collaborative video-playlists; using YouTube JS API. Also comes with a Chrome extension that adds site-features directly on Youtube, scrapes data & sends to app. Backend: PHP on OpenShift, DB: MySQL.
- **Phony Stark** - Uses smartphone orientation (accelerometer via HTML5 DeviceOrientation) to manipulate 3D objects on-screen. Uses Node.js on Amazon AWS EC2, Web-sockets (socket.io), WebGL (three.js).
- **Who's That Friend** - Facebook-based game app- guess friends' pictures from comments, uses Facebook Graph API and PHP SDK. Running on Red Hat OpenShift DB: MySQL.
- **Self-destructing Email** - PHP app to send self destructing HTML emails to inbox without redirecting to external link.
- **LiveTranslate** – *Qualcomm HackMobile* : Group-messaging app where messages are live-translated for each user allowing all parties to message in different languages simultaneously. Uses Google Translate REST API, Node.js, MySQL.
- **Medusa** – Visualizer for Java projects that shows class inheritances and references, and zooms into class-internals like members and methods. Written in Java, uses AWT and Swing API, JaPa parser and AST analyzer.
- **Etch** – *MHacks III* : Android App to capture, scribble on & share photos tethered at some particular location and view content shared by others at user's current location. Uses Express on Node.js, DB: MongoDB.

(more projects in full portfolio at <http://kingshu.me>)